## **Listing of the Claims**

1. (currently amended) A silicon nitride film formation method, comprising:

heating a substrate to be subjected to film formation to a substrate temperature;

heating a wire to a wire temperature;

supplying silane, ammonia, and hydrogen gases to the heating member, wherein excess hydrogen gas is supplied in an amount sufficient to form a substantially 100% conformal silicon nitride film on the substrate, wherein the conformal silicon nitride film has a highly uniform thickness providing about 100% step coverage.

- 2. (original) The method of claim 1, wherein the substrate temperature is in the range of about 200 400°C.
- 3. (original) The method of claim 1, wherein the wire temperature is in the range of about 1800 2100°C.
- 4. (original) The method of claim 1, further comprising conducting the silicon nitride film formation method at a pressure in the range of about 10 50 millitorr.

5. (currently amended) A method for forming a silicon nitride film, comprising:

providing a process chamber;

heating a substrate contained within the process chamber to a substrate temperature;

heating a wire contained within the process chamber to a wire temperature;

supplying a silicon precursor material to the process chamber;

supplying a nitrogen precursor material to the process chamber;

supplying a process gas to the process chamber in an amount sufficient to form a substantially 100% conformal silicon nitride film on the substrate, wherein the conformal silicon nitride film has a highly uniform thickness providing about 100% step coverage.

- 6. (original) The method of claim 5, wherein the silicon precursor material is selected from the group consisting of SiH<sub>4</sub>, Si<sub>2</sub>H<sub>6</sub>, and SiH<sub>2</sub>Cl<sub>2</sub>.
- 7. (original) The method of claim 5, wherein the nitrogen precursor material is selected from the group consisting of  $N_2$  and  $NH_3$ .
- 8. (original) The method of claim 5, wherein the process gas comprises hydrogen.

- 9. (original) The method of claim 5, wherein the substrate temperature is in the range of about 200 400°C.
- 10. (original) The method of claim 5, wherein the wire temperature is in the range of about 1800 2100°C.
- 11. (original) The method of claim 5, further comprising conducting the silicon nitride film formation method at a pressure in the range of about 10 50 millitorr.
- 12. (withdrawn) Apparatus for forming a silicon nitride film on a substrate, comprising:
  - a process chamber;
- a substrate heater positioned within said process chamber, said substrate heater configured to receive the substrate;
  - a wire positioned within said process chamber;
- a supply of silicon precursor material operatively associated with said process chamber;
- a supply of nitrogen precursor material operatively associated with said process chamber; and
- a supply of process enhancement gas operatively associated with said process chamber.

- 13. (withdrawn) The apparatus of claim 12, wherein the silicon precursor material is selected from the group consisting of  $SiH_4$ ,  $Si_2H_6$ , and  $SiH_2Cl_2$ .
- 14. (withdrawn) The apparatus of claim 12, wherein the nitrogen precursor material is selected from the group consisting of  $N_2$  and  $NH_3$ .
- 15. (withdrawn) The apparatus of claim 12, wherein the process gas comprises hydrogen.
- 16. (withdrawn) Apparatus for forming a silicon nitride film on a substrate, comprising:

a process chamber;

heating means positioned within said process chamber for heating the substrate to a substrate temperature;

a wire positioned within said process chamber;

means for providing a silicon precursor material to said process chamber;

means for providing a nitrogen precursor material to said process chamber; and

means for supplying a process enhancement gas to said process chamber.

- 17. (withdrawn) The apparatus of claim 16, wherein said means for providing a silicon precursor material to said process chamber comprises means for providing SiH<sub>4</sub> to said process chamber.
- 18. (withdrawn) The apparatus of claim 16, wherein said means for providing a nitrogen precursor material to said process chamber comprises means for providing NH<sub>3</sub> to said process chamber.
- 19. (withdrawn) The apparatus of claim 16, wherein said means for supplying a process enhancement gas to said process chamber comprises means for providing H2 to said process chamber.
- 20. (previously presented) The method of claim 1, wherein the conformal silicon nitride film has a highly uniform thickness.
- 21. (previously presented) The method of claim 1, wherein the conformal silicon nitride film has a highly uniform thickness on all side portions.
- 22. (previously presented) The method of claim 1, wherein the conformal silicon nitride film exhibits step coverage of very small-scale features on the substrate.

## **23.** (canceled)

- 24. (previously presented) The method of claim 5, wherein the conformal silicon nitride film has a highly uniform thickness.
- 25. (previously presented) The method of claim 5, wherein the conformal silicon nitride film has a highly uniform thickness on top, bottom, and side portions.
- 26. (previously presented) The method of claim 5, wherein the conformal silicon nitride film exhibits step coverage of very small-scale features on the substrate.

27. (canceled)